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SmartNode 485

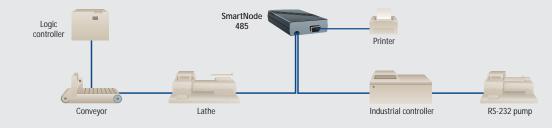


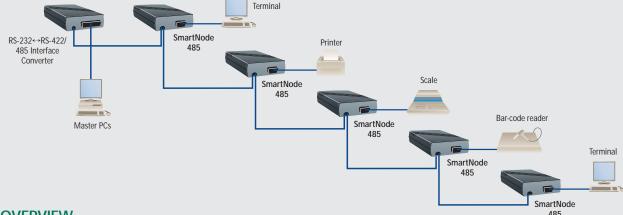
The only way to put your async RS-232 devices on an RS-485 network!

FEATURES

- Poll "dumb" RS-232 devices on your multidrop RS-485 line.
- Place your RS-232 devices up to 5000 ft. (1524 m) from each other.
- · 253 addresses for each network.
- Send commands to individual SmartNode 485s or broadcast messages over the entire network.
- No need to modify your RS-232 device or your RS-485 line.

Add RS-232 devices to your RS-485 environment or create an RS-232 multidrop network.





OVERVIEW

SmartNode 485 is the first device to allow async RS-232 printers, terminals, scales, lathes, bar code readers—any "dumb" RS-232 device—to function in a multidrop RS-485 network.

An RS-485 network consists of a master device polling slaving devices for information. RS-485 devices already have the "smarts" needed to follow the rules for orderly communication. In contrast, RS-232 devices are "dumb"—unaided, they can't follow the rules of a multipoint protocol. And that's where SmartNode 485 comes in.

SmartNode 485 does two jobs. It converts your RS-232 signals to the RS-485 interface so your async ASCII devices can operate in an RS-485 polled environment.

It also acts as the address node for your RS-232 device, allowing it to communicate with a master device on a multidrop network.

SmartNode 485 lets you combine the variety of RS-232 devices with the advantages of RS-485. For example, the superb noise immunity of RS-485 enables your RS-232 devices to send data at rates up to 38.4 kbps, while residing on the network up to 5000 ft. (1524 m) away from one another.

And SmartNode 485 does not require you to modify your RS-232 device. Instead, you configure SmartNode 485 for your device's requirements through internal DIP switches.

Each RS-485 network segment can consist of 32 devices. And up to 253 device addresses are available to SmartNode 485s on a network. Using repeaters, your SmartNode 485 network can be as complex as your application demands.

SmartNode 485 is available in either standalone or rackmount card versions. A 230-VAC model is also available.

TYPICAL APPLICATIONS

Add RS-232 devices to your existing RS-485 network. Your unmodified RS-232 devices operate along side your RS-485 machines.

Create a multidrop network of RS-232 devices. Place RS-232 printers, terminals, and bar code readers up to 5000 ft. (1524 m) apart. Control them with an RS-232 host controlling the network via an RS-232÷RS-485 Interface Converter.







Technically Speaking

- SmartNode 485 responds to master-device polls using the unique SmartNode protocol.
- Each of the SmartNode 485's ports are user-configurable. Set each port for speed, parity, and data code of the device to which it is attached.
- Use inexpensive, twisted-pair cable to connect the devices on your RS-485 network.
- RS-485's exceptional noise immunity enables you to network RS-232 devices in electrically noisy environments like machine shops, hospitals, and factories.
- An 8K buffer is available either to store data from the RS-232 device until the master asks for it, or to spool master-device requests until the RS-232 device can respond.

TECH SPECS

Altitude (Maximum) — 10,000 ft. (3048 m) Leads Supported — RS-232: pins 1 through 9 (TD, RD, CTS, RTS, DSR, CD, SG, DTR, RI); RS-485: TD. RD MTBF — 50.000 hours **Speed** — 50 bps to 38.4 kbps Connectors — (1) DB9 F DTE; (1) 4-wire terminal block Indicators — Both ports: RD, TD Temperature Ranges — Storage: -4 to +158°F (-20 to +70°C); Operating: 32 to 122°F (0 to 50°C) Power — Primary: 115 VAC/60 Hz or 230 VAC/50 Hz: Secondary: 17-VAC center tap, 750 mA Size — Standalone: 1.8"H x 5.5"W x 8.5"D (4.6 x 14 x 21.6 cm); Card: 4.5"H x 7.3"L (11.4 x 18.4 cm) Weight — 2 lb. (0.9 kg)

Item	Code
SmartNode 485	
115-VAC	
Standalone	IC150A
Rackmount Card	IC150C
230-VAC	
Standalone	IC150AE
You may also need	
12-Card Rack for SmartNode	DM010-SNI

12-Card Rack for SmartNode RIVI010-SN 9-Pin to DTE Cable **EHN023** 9-Pin to Modem Cable **EHN024** 9-Pin to AT Cable **EHN025** 9-Pin to PC Cable **EHN026 DB9** Extension Cable EDN12H-0010-MF

ADDITIONAL EQUIPMENT YOU MAY NEED

- (IC030C-R2). It fits right inside your PC to enable communication with RS-422/485 devices.
- To place an RS-232 master on your RS-485 line, you'll need an interface converter. Try our RS-232↔RS-422/485 Interface Converter (IC007A)

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- The so-called "tech" can't help you or gives you the wrong answer.
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